

## WHAT IS CLAIMED IS:

1. A color printing apparatus having a pulse width modulation means which performs pulse width modulation  
5 for tone control, comprising:

first determination means for determining a printing mode of printing data supplied;

second determination means for determining whether the printing data is to be processed as single-  
10 color data; and

setting means for setting a pulse width modulation pattern to be used by said pulse width modulation means in accordance with a determination result of said first and second determination means.

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2. The color printing apparatus according to claim 1, wherein said setting means sets a first pulse width modulation pattern when said first determination means determines that the printing mode of the printing data  
20 is not a predetermined mode that places a great value on thin line reproducibility, or when said second determination means determines that the printing data is to be processed as single-color data, and

said setting means sets a second pulse width  
25 modulation pattern, which achieves a smaller developer adhesion amount than the first pulse width modulation pattern, when said first determination means determines

that the printing mode is the predetermined mode and in addition said second determination means determines that the printing data is not to be processed as single-color data.

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3. The color printing apparatus according to claim 2, wherein the predetermined mode is a mode for CAD data.

- 10 4. A control method of a color printing apparatus having a pulse width modulation means which performs pulse width modulation for tone control, comprising:
- a first determination step of determining a printing mode of printing data supplied;
  - 15 a second determination step of determining whether the printing data is to be processed as single-color data; and
  - a setting step of setting a pulse width modulation pattern to be used by said pulse width
- 20 modulation means in accordance with a determination result of said first and second determination steps.

5. The control method of a color printing apparatus according to claim 4, wherein in said setting step, a

25 first pulse width modulation pattern is set when it is determined in said first determination step that the printing mode of the printing data is not a

predetermined mode that places a great value on thin line reproducibility, or when it is determined in said second determination step that the printing data is to be processed as single-color data, and

5           a second pulse width modulation pattern, which achieves a smaller developer adhesion amount than the first pulse width modulation pattern, is set when it is determined in said first determination step that the printing mode is the predetermined mode and in addition  
10 it is determined in said second determination step that the printing data is not to be processed as single-color data.

6           The control method of a color printing apparatus  
15 according to claim 5, wherein the predetermined mode is a mode for CAD data.